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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,281	10/19/2005	Dae-sik Kim	Q83811	7534
23373 7590 08/07/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			DOWLING, WILLIAM C	
	SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER
	, =		2851	
		,		.,
			MAIL DATE	DELIVERY MODE
			08/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/510,281	KIM ET AL.		
	Office Action Summary	Examiner	Art Unit		
		William C. Dowling	2851		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet w	ith the correspondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLOHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION 36(a). In no event, however, may a will apply and will expire SIX (6) MONON, cause the application to become AF	CATION. reply be timely filed VTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status	,	1			
1)⊠	Responsive to communication(s) filed on	<u>6</u> 1			
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowa				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D). 11, 453 O.G. 213.		
Dispositi	ion of Claims				
4)🖂	Claim(s) 1-110 is/are pending in the application	n.			
	4a) Of the above claim(s) <u>1-34,50-55,74-81 and</u>	d 96-110 is/are withdrawn	from consideration.		
5)🖾	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>35-44,56-59,62-64,72,73,82-86 and 8</u>	<u>89-92</u> is/are rejected.			
	Claim(s) 45.47-49.60-61.65-71 is/are objected				
8)[_	Claim(s) are subject to restriction and/o	r election requirement.			
Applicati	on Papers				
9)	The specification is objected to by the Examine	r.			
10)	The drawing(s) filed on is/are: a) ☐ acc	epted or b)⊡ objected to	by the Examiner.		
	Applicant may not request that any objection to the	drawing(s) be held in abeyan	nce. See 37 CFR 1.85(a).		
	Replacement drawing sheet(s) including the correct	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	d Office Action or form PTO-152.		
Priority u	ınder 35 U.S.C. § 119				
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	•	119(a)-(d) or (f).		
	1. Certified copies of the priority documents				
	2. Certified copies of the priority documents3. Copies of the certified copies of the priority				
	application from the International Bureau		received in this National Stage		
* S	see the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	received		
Attachment		_			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) s)/Mail Date		
3) 🔀 Inform	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 10604		formal Patent Application		

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DETAILED ACTION

Claim Objections

1. Claim 46 is objected to because of the following informalities: Claim 46 has no remaining dependence. Appropriate correction is required.

Election/Restrictions

2. Claims 1-34, 50-55, 74-81, 96-110 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Group, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 6/18/07.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 35-40, 41-44, 56-59, 72-73, 82-86 are rejected under 35 U.S.C. 102(a) as being anticipated by Lambert (6,288,815).

Lambert discloses a projection system comprising:

a light source;

a color separator which separates an incident beam according to color;

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a scrolling unit, comprising at least one lens cell, which converts the rotation of the lens cell into a rectilinear motion of an area of the lens cell through which light passes so that an incident beam is scrolled, the scrolling unit including a spiral lens disk (35) figure 7B,

a light valve (not shown)which processes a beam transmitted by the color separator and the scrolling unit according to an image signal and which forms a color picture,

a projection lens unit which magnifies the color picture formed by the light valve and which projects the magnified color picture onto a screen, and

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 64, 92 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert (6,288,815).
- 7. The general placement of a prism within the light path is deemed an obvious modification because it is well known that prism may be used to alter a light path.
- 8. Claims 62, 89-90 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert in view of Shibatani (6,332,684).

Lambert discloses the invention substantially as claimed but does not teach the specific color separation means.

Shibatani teaches the use of angled dichroic mirrors to separate colored light.

It also would have been obvious to one skilled in the art at the time of the invention to modify the device of Lambert by the substitution of a different type of color separation means, such as taught by Shibatani et al. because each would function as a means to form separated color beams.

9. Claim 63,91 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert in view of Kanayama et al. (2003/0095213).

Lambert disclose the invention substantially as claimed but do not teach the formation of color separation means of parallel dichroic reflection surfaces

Kanayama et al. teaches such a color separation structure with structure (5) which is formed of three prisms with dichroic filter surfaces .

It would have been obvious to one skilled in the art at the time of the invention to modify the device of Lambert and by the substitution of a different type of color separation means, such as taught by Kanayama et al. (2003/0095213), because each would function as a means to form separated color beams.

Allowable Subject Matter

10. Claims 45, 47-49, 60-61, 65-71 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Dowling whose telephone number is 571-272-2116. The examiner can normally be reached on MON-THURS.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or,57/1-272/1000.

William C. Dowling Primary Examiner /

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wcd